

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101522,297
Source: PCT
Date Processed by STIC: 2-2-05

ENTERED



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,297

DATE: 02/02/2005
TIME: 15:22:03

Input Set : A:\MER137SEQ.TXT
Output Set: N:\CRF4\02022005\J522297.raw

4 <110> APPLICANT: MERCK PATENT GMBH
5 BAKER, Matthew
6 CARR, Francis J.
8 <120> TITLE OF INVENTION: T-CELL EPITOPE IN ERYTHROPOIETIN
11 <130> FILE REFERENCE: MER-137
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/522,297
C--> 13 <141> CURRENT FILING DATE: 2005-01-24
13 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/008725
14 <151> PRIOR FILING DATE: 2003-08-07
16 <150> PRIOR APPLICATION NUMBER: EP02017914.9
17 <151> PRIOR FILING DATE: 2002-08-09
19 <160> NUMBER OF SEQ ID NOS: 61
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 166
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
28 <400> SEQUENCE: 1
29 Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu
30 1 5 10 15
31 Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His
32 20 25 30
33 Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe
34 35 40 45
35 Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu Val Trp
36 50 55 60
37 Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu
38 65 70 75 80
39 Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp
40 85 90 95
41 Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu
42 100 105 110
43 Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala
44 115 120 125
45 Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val
46 130 135 140
47 Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala
48 145 150 155 160
49 Cys Arg Thr Gly Asp Arg
50 165
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 33
55 <212> TYPE: PRT

(p5)(b)

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56 <213> ORGANISM: Homo sapiens
58 <400> SEQUENCE: 2
59 Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu Ala Glu Asn Ile
60 1 5 10 15
61 Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val
62 20 25 30
63 Pro
67 <210> SEQ ID NO: 3
68 <211> LENGTH: 33
69 <212> TYPE: PRT
70 <213> ORGANISM: Homo sapiens
72 <400> SEQUENCE: 3
73 Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu
74 1 5 10 15
75 Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr
76 20 25 30
77 Leu
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 33
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 4
87 Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser
88 1 5 10 15
89 Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg
90 20 25 30
91 Thr
95 <210> SEQ ID NO: 5
96 <211> LENGTH: 21
97 <212> TYPE: PRT
98 <213> ORGANISM: Homo sapiens
100 <400> SEQUENCE: 5
101 Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser
102 1 5 10 15
103 Leu Asn Glu Asn Ile
104 20
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 21
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens
112 <400> SEQUENCE: 6
113 Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu
114 1 5 10 15
115 Gln Leu His Val Asp
116 20
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 21
121 <212> TYPE: PRT
122 <213> ORGANISM: Homo sapiens

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124 <400> SEQUENCE: 7
125 Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys
126 1 5 10 15
127 Leu Lys Leu Tyr Thr
128 20
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 12
133 <212> TYPE: PRT
134 <213> ORGANISM: Homo sapiens
136 <400> SEQUENCE: 8
137 Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala
138 1 5 10
141 <210> SEQ ID NO: 9
142 <211> LENGTH: 15
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 9
147 Lys Val Val Asp Gln Ile Lys Lys Ile Ser Lys Pro Val Gln His
148 1 5 10 15
151 <210> SEQ ID NO: 10
152 <211> LENGTH: 15
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Potential epitope sequences
159 <400> SEQUENCE: 10
160 Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr
161 1 5 10 15
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 15
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Potential epitope sequences
172 <400> SEQUENCE: 11
173 Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu
174 1 5 10 15
177 <210> SEQ ID NO: 12
178 <211> LENGTH: 15
179 <212> TYPE: PRT
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Potential epitope sequences
185 <400> SEQUENCE: 12
186 Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu
187 1 5 10 15
190 <210> SEQ ID NO: 13
191 <211> LENGTH: 15
192 <212> TYPE: PRT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,297

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Input Set : A:\MER137SEQ.TXT

Output Set: N:\CRF4\02022005\J522297.raw

193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Potential epitope sequences
198 <400> SEQUENCE: 13
199 Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu Ala Glu Asn
200 1 5 10 15
203 <210> SEQ ID NO: 14
204 <211> LENGTH: 15
205 <212> TYPE: PRT
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Potential epitope sequences
211 <400> SEQUENCE: 14
212 Glu Arg Tyr Leu Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr
213 1 5 10 15
216 <210> SEQ ID NO: 15
217 <211> LENGTH: 15
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Potential epitope sequences
224 <400> SEQUENCE: 15
225 Leu Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala
226 1 5 10 15
229 <210> SEQ ID NO: 16
230 <211> LENGTH: 15
231 <212> TYPE: PRT
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Potential epitope sequences
237 <400> SEQUENCE: 16
238 Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His Cys
239 1 5 10 15
242 <210> SEQ ID NO: 17
243 <211> LENGTH: 15
244 <212> TYPE: PRT
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Potential epitope sequences
250 <400> SEQUENCE: 17
251 Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn
252 1 5 10 15
255 <210> SEQ ID NO: 18
256 <211> LENGTH: 15
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Potential epitope sequences
263 <400> SEQUENCE: 18

RAW SEQUENCE LISTING DATE: 02/02/2005
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Input Set : A:\MER137SEQ.TXT
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264 Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile
265 1 5 10 15
268 <210> SEQ ID NO: 19
269 <211> LENGTH: 15
270 <212> TYPE: PRT
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Potential epitope sequences
276 <400> SEQUENCE: 19
277 Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val Pro
278 1 5 10 15
281 <210> SEQ ID NO: 20
282 <211> LENGTH: 15
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Potential epitope sequences
289 <400> SEQUENCE: 20
290 Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys
291 1 5 10 15
294 <210> SEQ ID NO: 21
295 <211> LENGTH: 15
296 <212> TYPE: PRT
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Potential epitope sequences
302 <400> SEQUENCE: 21
303 Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe
304 1 5 10 15
307 <210> SEQ ID NO: 22
308 <211> LENGTH: 15
309 <212> TYPE: PRT
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Potential epitope sequences
315 <400> SEQUENCE: 22
316 Glu Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp
317 1 5 10 15
320 <210> SEQ ID NO: 23
321 <211> LENGTH: 15
322 <212> TYPE: PRT
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Potential epitope sequences
328 <400> SEQUENCE: 23
329 Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met
330 1 5 10 15
333 <210> SEQ ID NO: 24
334 <211> LENGTH: 15

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/02/2005
PATENT APPLICATION: US/10/522,297 TIME: 15:22:04

Input Set : A: \MER137SEQ.TXT
Output Set: N: \CRF4\02022005\J522297.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:61; Xaa Pos. 25,35,88,91,93,95,141,142,144,145,148,149,153

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Input Set : A:\MER137SEQ.TXT
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L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:822 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:828 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
L:834 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
L:841 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
L:848 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
L:855 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
L:860 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
L:863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:16
M:341 Repeated in SeqNo=61